

Amendments to the Specification

At the indicated page and line numbers, please replace the existing sections or paragraphs, as the case may be, with the ones set forth below.

(Page 68, line 1 through page 69, line 51)

TABLE I

(start and end nucleotides refer to the monensin biosynthetic gene cluster provided as SEQ ID NOs: 1-4, wherein SEQ ID NO: 1 is nucleotides 1-30,000, SEQ ID NO: 2 is nucleotides 30,001-60,000, SEQ ID NO: 3 is nucleotides 60,001-90,000, and SEQ ID NO: 4 is nucleotides 90,001-103,600 of the monensin biosynthetic gene cluster)

gene	function	start	end
gdhA	glutamate dehydrogenase (partial)	1038	0
dapA	dihydrodipicolinate synthase	2140	1220
orf3	putative transcriptional activator	2211	3152
orf4	hypothetical protein	3264	3680
orf5	hypothetical protein	4307	3684
orf6	hypothetical protein	4570	4758
orf7	hypothetical protein	5058	5612
acpX	acyl carrier protein	6010	5693
ksX	ketoacyl synthase	8531	6045
monCII	probable epoxihydrolase/cyclase	9542	8643
monE	methyltransferase	10426	9596
monT	monensin resistance gene (ABC-transporter)	10656	12191
monRII	probable repressor	12205	12780
monAIX	thioesterase	13829	13023
monAI	polyketide synthase loading & extension module 1	14121	23198
	KS-L	14172	15486
	AT-L malonate specific	15777	16880
	ACP-L	17019	17276
	KS1	17358	18626
	AT1 methylmalonate specific	18960	19976
	DH1 (potential)	20019	20519
	KR1 (inactive)	21636	22241
	ACP1	22536	22793
monAII	polyketide synthase module 2	23205	29921
	KS2	23307	24569
	AT2 methylmalonate specific	24891	25913
	DH2	25953	26369
	ER2	27600	28463

	KR2	28485	29042
	ACP2	29313	29570
monAIII	polyketide synthase modules 3 & 4	29974	42372
	KS3	30076	31347
	AT3 malonate specific	31798	32838
	DH3	32884	33465
	KR3	34692	35181
	ACP3	35553	35811
	KS4	35899	37170
	AT4 methylmalonate specific	37489	38511
	DH4	38557	38982
	ER4	40123	40986
	KR4	41005	41562
	ACP4	41848	42105
monAIV	polyketide synthase modules 5 & 6	42448	54564
	KS5	42628	43890
	AT5 ethylmalonate specific	44221	45243
	DH5	45289	45744
	KR5	46785	47337
	ACP5	47593	47850
	KS6	47947	49218
	AT6 malonate specific	49579	50601
	DH6	50644	51075
	ER6	52222	53102
	KR6	53101	53661
	ACP6	54052	54306
monAV	polyketide synthase modules 7 & 8	54614	66934
	KS7	54716	55978
	AT7 methylmalonate specific	56300	57319
	DH7	57358	57802
	KR7	59048	59608
	ACP7	59867	60124
	KS8	60185	61453
	AT8 malonate specific	61808	62839
	DH8	62882	63316
	ER8	64577	65437
	KR8	65456	66016
	ACP8	66404	66661
monAVI	polyketide synthase module 9	66952	72054
	KS9	67075	68340
	AT9 malonate specific	68698	69729
	KR9 (potential)	70735	71262
	ACP9	71536	71783
monH	probable regulator	72051	74993
monCI	FAD containing epoxidase	76541	75051
monBII	double bond isomerase	76960	76538
monBI	double bond isomerase	77450	77016
monAVIII	polyketide synthase modules 11 & 12	88708	77447
	KS11	88612	87344
	AT11 methylmalonate specific	87022	85993
	KR11	85111	84562
	ACP11	84292	84035

	KS12	83962	82694
	AT12 methylmalonate specific	82354	81335
	DH12 (potential) delta	81286	80855
	ER12 (potential)	79618	78914
	KR12	78895	78337
	ACP12	78070	77812
monAVII	polyketide synthase module 10	93741	88816
	KS10	93636	92368
	AT10 methylmalonate specific	92040	91021
	KR10	90132	89584
	ACP10	89322	89068
monD	P450 oxygenase	94081	95273
monRI	probable activator	96141	95338
monAX	thioesterase	96941	96138
orf29	cell wall biosynthesis capK	97580	98953
lipB	lipase B	99983	98991
orf31	ion pump	101433	100507
orf32	membrane structural protein	102581	101490
amtA	glycine amidinotransferase	102924	103450

(Page 70, lines 1-3)

TABLE II

(Table II is an abbreviated version of Table II of pages 70-99 of PCT/GB00/02072, ~~which is incorporated herein by reference.~~)